Updated July 24, 2025

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Experience

- **LinkedIn Technology Information Private Limited** Hybrid/Bangalore, India
  Applied Research Engineer *Aug 2021 - Apr 2025*
  - **SmartCopy**: Worked on a BERT-based model which predicts the best short-form text to show via various communication channels (email headers, notifications, etc.) to increase member engagement. Was responsible for moving the model to a real-time framework to leverage online data and inference, which increased weekly users by 0.12% and sessions by 0.12%.
  - **Feed for LI groups**: Handled maintenance of the group page feed to show relevant content to users. Also worked on how group posts surfaced on the main feed, optimising to increase engagement with group content while ensuring that priority non-group content was not pushed down in the feed. This increased net group engagement by 1.4% and reduced skipped content by 0.13% while preserving overall feed engagement.
  - **Question Generation for Groups and Communities**: Built a framework to generate questions using GAI that can be posted into relevant LI groups, and identify expert members who can answer these questions (patent pending).
- **ANI Technologies Private Limited (Ola)** Bangalore, India
  Research Engineer/Data Scientist *Jul 2018 - Jul 2021*
  - **Use-case Identification**: Built a pipeline to generate use-case tags for locations in 50+ cities across multiple countries, and an Active-Learning driven framework for predicting ride use-cases.
  - **Pickup Suggestion**: Productionised improvements to a DBSCAN and linkage-based method to suggest ideal pickups for 50M+ users worldwide. Developed an update for pickup suggestions using demand and pickup cluster association, which reduced the average distance users need to walk to board the cab by 2m.

Education

- **Indian Institute of Technology, Kharagpur** WB, India
  Master of Technology in Computer Science and Engineering; GPA: 8.2 / 10.0 *Jul 2016 - Jun 2018*
  - **Personalized Review Recommendation in e-commerce (Thesis)**: Built a recommendation system which selects an optimal subset of reviews to capture product aspect information in an e-commerce website, and recommends the product to a user based on aspect preference.
  - **Classification and Sub-classification of Facts and Opinions in Multiple Text Sources**: Built a generic opinion-fact classifier to detect opinions and facts from online news articles and social media datasets.
- **Institute of Engineering and Management, Kolkata** WB, India
  Bachelor of Technology in Computer Science and Engineering; GPA 8.63 / 10.0 *Jul 2012 - Jun 2016*

Publications

- **Identifying Opinion and Fact Subcategories from the Social Web**
  A Mullick et al - ACM Conference on Supporting Groupwork, 2018
- **Feature Subset Selection for Clustering using Binary Particle Swarm Optimization**
  SG Dastider et al - IEEE International Conference on Information Technology (ICIT), 2015

Technical Skills

- **Areas of Interest**: Machine Learning, Data Science, Natural Language Processing (NLP), Artificial Intelligence (AI)
- **Languages**: Scala, Python, R, C, C++, Java
- **Tools & Frameworks**: Apache Spark, Hadoop, Hive, GPT, BERT, Natural Language Toolkit (NLTK), Simple Features for R (sf), scikit-learn, tensorflow/keras